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## GSK3B Ab

Cat.#: BF0695 Size: 50ul,100ul,200ul	Concn.: 1mg/ml Source: Mouse	Mol.Wt.: 46kDa Clonality: Monoclonal
Application:	ELISA 1/10000, WB 1/500 - 1/2000, IHC 1/200 - 1/1000, ICC 1/200 - 1/1000, FCM 1/200 - 1/400	
Reactivity:	Human,Mouse,Rat,Monkey	
Purification:	Affinity-chromatography.	
Specificity:	GSK3B Ab detects endogenous levels of total GSK3B.	
Immunogen:	Purified recombinant fragment of human GSK3B expressed in E. Coli.	
Uniprot:	P49841	
Description:	Glycogen synthase kinase 3 (GS kinase with two isoforms (alpha discovered as a key enzyme in g was subsequently shown to func proliferation, motility and surviv number of pathological condition diabetes and is increasingly see component of neurological disea tau and presenilin-1, which are i of Alzheimer's disease. Both isof ubiquitously expressed, althoug GSK-3beta are found in the brain synaptic plasticity, possibly via trafficking. GSK-3 phosphorylate substrates including signaling pu and structural proteins, and is p cascade of a large number of gr The activity of GSK is regulated mediated phosphorylation at Se GSK-3beta, S6K, RSK, PKA and P and PP2A), and by binding to pro- catenin, axin, CK1 and the APC of	K-3), a serine-threonine and beta), was originally glycogen metabolism. GSK-3 ction in cell division, al. GSK-3 plays a role in a ns including cancer and n as an important ases. GSK-3 phosphorylates nvolved in the development forms of GSK-3 are h particularly high levels of n where it is involved in regulation of NMDA receptor es over 40 different roteins, transcription factors art of the signal transduction owth factors and cytokines. by phosphorylation (Akt: Akter r21 of GSK-3α and Ser9 of KC), dephosphorylation (PP1 otein complexes (with beta- complex).
Subcellular Location:	Cytoplasm. Nucleus. Cell membr form shows localization to cytop The MEMO1-RHOA-DIAPH1 signa localization of the phosophoryla membrane.	rane. The phosphorylated lasm and cell membrane. ling pathway controls ted form to the cell
Tissue Specificity:	Expressed in testis, thymus, pro expressed in lung, brain and kid EIF2AK2/PKR and TAU in the Alz	state and ovary and weakly ney. Colocalizes with heimer disease (AD) brain.



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Similarity:	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.
Storage Condition and Buffer:	Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis using GSK3B mouse mAb against A549 (1), K562 (2), PC-12 (3), NIH/3T3 (4), and HEK293 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung cancer (left) and breast cancer tissues (right) using GSK3B mouse mAb with DAB staining.



Immunofluorescence analysis of NIH/3T3 (left) and U251 (right) cells using GSK3B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

<code>IMPORTANT:</code> For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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